



City of Concord, New Hampshire

PURCHASING DIVISION

COMBINED OPERATIONS & MAINTENANCE FACILITY

311 NORTH STATE STREET

CONCORD, NH 03301

(603) 230-3664; FAX: (603) 230-3656

www.concordnh.gov/Purchasing

April 8, 2016

ADDENDUM NUMBER ONE

B 28-16

FY 2016 WATER MAIN IMPROVEMENT PROJECT

TO ALL FIRMS OF RECORD: This addendum forms a part of and modifies the bidding and contract documents and technical specifications for the project named above. The following changes, additions and clarifications are made to the original Contract Documents:

1. **Mandatory Pre-Bid Meeting.** A copy of the following documents from the mandatory pre-bid meeting held on Tuesday, April 5, 2016 at 10:00 am are attached for your review and records:
 - a. Pre-Bid Meeting Agenda;
 - b. Summary of B 28-16 Bidding and Contractual Requirements; and
 - c. Sign-In Sheet
2. **Question:** Can we use plastic pipes other than certa-lock yellowline pipe for temporary water service
Answer: Yes, as long as it meets water service certification
3. **Question:** What is the water pressure on Rolfe St?
Answer: Static pressure is 90 lbs on Merrimack St. / Penacook St.
4. **Base Bid Itemized Sheet, Rockland Rd;, Cross St., Rolfe St., Allen St.:** Delete Base Bid Itemized Sheet pages # 29-33. Add Revised Base Bid Itemized Sheet pages # 29-34.
5. **Bid Alternate # 2:** Add the attached Bid Alternate #2, one each 8" Team Insert Valve/ Valve Box.
6. **Measurement and Payments Sheets:** Add the following measurement and payment sheets:

A. 8"QUIK VALVE INSERTION VALVE/ BOX	ITEM # 10
B. REPLACEMENT OF 4" or 6" SEWER SERVICES IN CONFLICT WITH NEW WATER MAIN WITH 4" & 6" DUCTILE IRON PIPE CLASS 52	ITEM # 22

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Water Main Replacement Project

- | | |
|---|------------------------|
| C. ADJUSTING WATER GATES VALVE BOXES | ITEM #611.90001 |
| D. RELAY EXISTING 4 INCH SEWER SERVICES
TO PROPERTY LINE | ITEM# 23 |
| E. RELAY EXISTING 6 INCH SEWER SERVICES
TO PROPERTY LINE | ITEM# 24 |

7. **Special Provisions Page 70:** Add Item #41, Add Vehicle for Project (see attached)

Please be advised that:

1. All bid documents, including addenda, will be posted to the City's secure FTP site at <https://secure.concordnh.gov>; Account: vendor; Password: Concord1.
2. The Bid Submission Checklist on page 26 of B 28-16 details what each bidder must submit in order to be considered responsive.
3. As part of the bid submission, each contractor must acknowledge receipt of all addenda on the Bid Form signature on page 28;
4. Questions must be submitted, in writing (email is preferred), to the Purchasing Manager no later than 5:00 pm on April 12, 2016.
5. Bids are due no later than 2:00 pm on April 19, 2016 and are to be submitted in hard copy (1 original) to the Purchasing Office, Combined Operations & Maintenance Facility, 311 North State Street, Concord, NH 03301. Bids will be opened publicly at 2:00 pm on April 19, 2016.

CITY OF CONCORD, NEW HAMPSHIRE



DOUGLAS B. ROSS
PURCHASING MANAGER
dross@concordnh.gov

**CITY OF CONCORD
ENGINEERING SERVICES DIVISION**

PRE-BID MEETING AGENDA

DATE: April 5, 2016

TIME: 10:00 AM

SUBJECT: B28-16 – CIP 85 FY 2016 Water Main Improvement Project

LOCATION: City Hall 2nd Floor Conference Room

1. Introductions

2. Contract Requirements

Scope Of Project

Description of Work

Project Limits

3. Special Considerations

Project Staging Area

Working Hours Days 7am – 5pm Monday- Friday

Holiday Day Work / Dust Control Policy's

Excavation Permit

Erosion Control Plan

Traffic Control Plan

Temporary Pavement

Material Stored onsite for payment / new material only

Flaggers (lead flagger)

Extra high water pressure (pressure reducers)

Chlorination, dechlorination,

Solid Sleeves / Extended Range Couplings

Site Restoration

Liquidated Damages

4. Questions

B 28-16
FY 2016 WATER MAIN IMPROVEMENT PROJECT
MANDATORY PRE-BID MEETING
APRIL 5, 2016 AT 10:00 AM

1. Welcome and thank you for attending and for your interest in doing business with the City of Concord.
2. Please sign-in. This is a mandatory pre-bid meeting so only those contractors in attendance and signed-in may submit a bid.
 - A. Please write legibly and provide your email address so I can send any future addenda electronically.
 - B. A copy of the sign-in sheet will be provided to each contractor of record as part of Addendum #1.
4. The complete bid documents are available at no charge, in PDF format, on the City's secure FTP site at <https://secure.concordnh.gov>; Account: vendor; Password: Concord1.
5. Bids are due: **Tuesday, April 19, 2016 no later than 2:00 pm**
 - A. They may be mailed, overnighted, or hand delivered to my office: Combined Operations & Maintenance Facility, 311 North State Street, Concord, NH 03301.
 - B. I can't accept bids that are sent electronically (via fax, email etc.) as I can't guarantee their confidentiality until the due date/time.
 - C. Bids will be opened publicly on **April 19, 2016 at 2:00 pm** in the conference room at the Combined Operations & Maintenance Facility, 311 North State Street, Concord, NH 03301. You are welcome and invited to attend but it is not required.
6. What each contractor must submit to be considered responsive:
 - A. See the Bid Submission Checklist on page 26 of B 28-16:
 - B. Submit in **one (1) original hard copy**:
 - (1) Bid Sheet/Form and Signature Page: Pages 27 & 28
 - (2) Itemized Bid Sheet:
 - a. Base Bid: Pages 29 – 33
 - b. Bid Alternate #1 & Bids Summary: Pages 34 & 35
 - (3) 10% Bid Bond: Sample on Page 49
 - (4) Alternate Form W9: Page 43
 - (5) City of Concord Indemnification Agreement: Page 43
 - (6) Qualifications Statement: Page 44
 - (7) US DOT/FHA Drug and Alcohol Testing Certification: Page 46
 - (8) Acknowledgement of the City's Insurance Requirements: Page 47
 - (9) No Bid Questionnaire (if applicable): Page 48

C. The successful contractor must submit the following prior to contract signing:

- (1) Payment Bond: 100% of Contract Price: Sample on Page 50
- (2) Performance Bond: 100% of Contract Price: Sample on Pages 51
- (3) Insurance Certificate meeting the minimum types and levels of coverage naming the City of Concord as **additional insured with respect to general, automobile and umbrella liability**. See Page 47

7. Contract Time:

- | | |
|---|--|
| A. Contract Award: | As soon as possible after April 19, 2016 |
| B. Work to Begin: | 10 calendar days from Notice to Proceed |
| C. Substantial Completion: | <u>Not later than November 6, 2016</u> |
| D. Final Completion (except final overlay): | <u>Not later than November 20, 2016</u> |
| E. Final Overlay Work Shall Occur: | <u>Not later than July 1, 2017</u> |
| F. Final Completion of Project: | <u>Not later than July 15, 2017</u> |

8. Progress Payments: Yes, monthly. We will go over invoicing requirements at the pre-construction meeting.

9. Retainage:

The City shall retain a portion of the progress payments, each month, in accordance with the following procedures:

- A. Until work is 50% complete, as determined by the City, retainage shall be 10% of the monthly payments claimed. The computed amount of retainage shall be deposited in a **non-interest bearing account** established by the City.
- B. After the work is 50% complete, and provided the Contractor has satisfied the City in quality and timeliness of the work, and provided further that there is no specific cause for withholding additional retainage no further amount shall be withheld.
- C. Upon substantial completion, the amount of retainage shall be reduced to 2% of the total contract price plus an additional retainage based on the City's estimate of the fair value of the punch list items and the cost of completing and/or correcting such items of work, with specified amounts for each incomplete or defective item of work. As these items are completed or corrected, they shall be paid out of the retainage until the entire project is declared completed. The final 2% retainage shall be held, in the non-interest bearing account, during the **two-year warranty period** and released only after the City has accepted the project.

10. Liquidated Damages:

- A. \$500.00 plus engineering charges per day for each calendar day of delay **beyond July 15, 2017**.

11. Questions after today's meeting should be sent, in writing (email is preferred), to:

Doug Ross, Purchasing Manager
City of Concord, 311 North State Street, Concord, NH 03301
dross@concordnh.gov, (603) 230-3656 (Fax), (603) 230-3664 (Office)

The deadline for the submission of questions is 5:00 pm on April 12, 2016.

CITY OF CONCORD
PURCHASING DIVISION
MANDATORY PRE-BID MEETING SIGN-IN SHEET
FY 2016 WATER MAIN IMPROVEMENT PROJECT
BID NO. B 28-16 DATE: 4.5.16 TIME: 10:00 AM

ATTENDEES

PRINTED NAME	COMPANY NAME (Representing)	EMAIL	TELEPHONE # (Including area code)	FAX #
1. <u>Doug Ross</u>	<u>CITY of CONCORD</u>	<u>ross@concordnh.gov</u>	<u>(603) 230-3664</u>	<u>(603) 230-3656</u>
<u>Mailing Address: 311 NORTH STATE STREET, CONCORD, NH 03301</u>				
2. <u>Nancy Bartlett</u>	<u>North East Earth Mechanics, Inc.</u>	<u>jimmy@earth.com</u>	<u>603-435-7989</u>	<u>603-435-7950</u>
<u>Mailing Address: 155 Barnstead Rd, Pittsfield, NH 03263</u>				
3. <u>Daniel Lyford</u>	<u>Jeremy Hiltz Ex. inc</u>	<u>W.Hess@HILTZ-Excavating.com</u>		
<u>Mailing Address: PO Box 1142, Askealand, NH 03217</u>				
4. <u>Nicholas Lefevre</u>	<u>Defelice Corporation</u>	<u>engineering@defelicecorp.com</u>	<u>978-452-6967</u>	<u>978-452-6903</u>
<u>Mailing Address: 78 Silva Lane, Drott, MA 01826</u>				
5. <u>Robert Marcello</u>	<u>Imco Excavators</u>	<u>Imco Excavators, Inc.</u>		
<u>Mailing Address: 84 Excelsior Road, South Westfield, MA 01080</u>				
6. <u>Mark Safford</u>	<u>LYMAN CONST</u>	<u>SUE@LYMANANDSONS.COM</u>	<u>603-521-4314</u>	<u>527-0897</u>
<u>Mailing Address: 310 Hart Rd, GILBERT, NH.</u>				
7. <u>John Sanborn</u>	<u>KINGSBURY CO. ESTIMATING</u>	<u>@KINGSBURYCO.COM</u>		
<u>Mailing Address: 264 MAP RIVER DR, WATSFIELD, VT 05673</u>				

ATTENDEES

PRINTED NAME	COMPANY NAME (Representing)	EMAIL	TELEPHONE # (Including area code)	FAX #
8. RONALD BUTLER	R.D. EDMONDS	RDE@METCOCASR.NET	603-334-4869	934-4980
Mailing Address:				
9. Phil D'Agnostino	Bakulump	phagostino@bakulump.com	603-857-2487	508-887-0558
Mailing Address:				
10. David Fraser	DBU construction	dfraser@DBU-CONSTRUCTION.COM	603-736-4100	603-736-4101
Mailing Address:				
11. Smith C Weldon	Greene & Lovell Inc	SWELSON@GRIFFIN.COM	224-4114	224-6114
Mailing Address:				
12. George Smith	Weaver Bros. Const. Co., Inc.	george@wbcc.biz	228-8631	228-5375
Mailing Address:				
13. Keith Patnode	SUR Const. west	Kpatnode@gmail.com	762-2914	
Mailing Address:				
14. Erika Payne	SUR west	erika.surwest@gmail.com	603-357-7980	
Mailing Address:				
15. Bob Burns	FLMCC	BBurns@FLMcc.com	228-5558	
Mailing Address:				
16. PATAN GRANISE	NORRISSE & SONS, INC.	INFO@NORRISSE.COM	781-592-8121	
Mailing Address:				
571 JEFFERSON AVE	Salem, MA 01970			

ATTENDEES

PRINTED NAME

COMPANY NAME
(Representing)

EMAIL

TELEPHONE #
(Including area code)

FAX #

17. Dan McLoe COC dmccoy@concordnh.gov 225-8520

Mailing Address:

41 Green St

18.

Concord NH 03301

Mailing Address:

19. Jason Cheever HD Supply Water Supply Jason.Cheever@HDSupply.com 727-7439

Mailing Address:

232 Frontage Rd Manchester NH

20.

Martha Drucker COL SPRING MDRUCKER@concordnh.gov 225-8520

Mailing Address:

41 Green St Concord NH 03301

21.

Dwight Weller City of Concord dwweller@concordnh.gov 225-8520

Mailing Address:

22.

Mailing Address:

23.

Mailing Address:

24.

Mailing Address:

25.

Mailing Address:

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Water Main Replacement Project

REVISED BASE BID
ITEMIZED SHEET
ROCKLAND RD., CROSS ST., ROLFE ST., ALLEN ST.

The bid sheets, as part of this proposal, shall be filled in by the BIDDER with the unit prices written in both words and numerals and the extensions made by him/her.

In case of discrepancy between words and numerals, the amount shown in words shall govern. BIDDER agrees to perform all necessary labor, furnish all materials and do all work described in the specifications and shown on the drawings, for the unit prices or extend prices indicated.

<i>BID ITEM NO.</i>	<i>EST. QTY.</i>	<i>UNITS</i>	<i>BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)</i>	<i>UNIT PRICE IN FIGURES (DOLLARS AND CENTS)</i>	<i>BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)</i>
1	10	LF	14 INCH DUCTILE IRON PIPE CLASS 52 _____ DOLLARS AND _____ CENTS		
2	745	LF	12 INCH DUCTILE IRON PIPE CLASS 52 _____ DOLLARS AND _____ CENTS		
3	3370	LF	8 INCH DUCTILE IRON PIPE CLASS 52 _____ DOLLARS AND _____ CENTS		
4	120	LF	6 INCH DUCTILE IRON PIPE CLASS 52 _____ DOLLARS AND _____ CENTS		
5	6	LF	4 INCH DUCTILE IRON PIPE CLASS 52 _____ DOLLARS AND _____ CENTS		
6	1	EA	12 INCH GATE VALVE _____ DOLLARS AND _____ CENTS		
7	9	EA	8 INCH GATE VALVE _____ DOLLARS AND _____ CENTS		
8	8	EA	6 INCH GATE VALVE _____ DOLLARS AND _____ CENTS		

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<i>BID ITEM NO.</i>	<i>EST. QTY.</i>	<i>UNITS</i>	<i>BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)</i>	<i>UNIT PRICE IN FIGURES (DOLLARS AND CENTS)</i>	<i>BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)</i>
9	1	EA	12 INCH TEAM INSERT VALVE _____ DOLLARS AND _____ CENTS		
10	1	EA	8 INCH QUIK VALVE INSERTION VALVE _____ DOLLARS AND _____ CENTS		
11	1	EA	14X6 T/S & VALVE _____ DOLLARS AND _____ CENTS		
12	5400	LF	4 INCH CERTA-LOK YELOMINE TEMPORARY PIPING _____ DOLLARS AND _____ CENTS		
13	1620	LF	2 INCH CERTA-LOK YELOMINE TEMPORARY PIPING _____ DOLLARS AND _____ CENTS		
14	6840	LBS	FITTINGS _____ DOLLARS AND _____ CENTS		
15	12	EA	HYDRANTS _____ DOLLARS AND _____ CENTS		
16	1	EA	DISCONTINUE HYDRANT _____ DOLLARS AND _____ CENTS		
17	43	EA	1 INCH WATER SERVICE _____ DOLLARS AND _____ CENTS		
18	1	EA	DISCONTINUE BLOWOFF ASSEMBLY _____ DOLLARS AND _____ CENTS		
19	1170	LF	2X4 RIGID POLYSTYRENE INSULATION (2" THICK) _____ DOLLARS AND _____ CENTS		
20	13.5	CY	3000 LB CONCRETE THRUST BLOCKS _____ DOLLARS AND _____ CENTS		

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<i>BID ITEM NO.</i>	<i>EST. QTY.</i>	<i>UNITS</i>	<i>BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)</i>	<i>UNIT PRICE IN FIGURES (DOLLARS AND CENTS)</i>	<i>BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)</i>
21	550	50 LB BAGS	50 LB BAGS CALCIUM CHLORIDE TYPE 3 GRADE 3 _____ DOLLARS AND _____ CENTS		
22	24	EA	REPLACEMENT OF 4" & 6" SEWER SERVICES _____ DOLLARS AND _____ CENTS		
23	2	EA	RELAY EXISTING 4 INCH SEWER SERVICES _____ DOLLARS AND _____ CENTS		
24	2	EA	RELAY EXISTING 6 INCH SEWER SERVICES _____ DOLLARS AND _____ CENTS		
202.43	50	LF	REMOVAL OF ASBESTOS PIPE 0 TO 24 INCHES _____ DOLLARS AND _____ CENTS		
203.1	50	CY	COMMON EXCAVATION _____ DOLLARS AND _____ CENTS		
203.2	330	CY	ROCK EXCAVATION _____ DOLLARS AND _____ CENTS		
203.19	112	CY	COMMON STUCTURE EXC.(EXPLORATORY) _____ DOLLARS AND _____ CENTS		
203.27	730	CY	UNSUITABLE MATERIALS _____ DOLLARS AND _____ CENTS		
209.1	890	CY	GRANULAR BACKFILL _____ DOLLARS AND _____ CENTS		
214	1	UNIT	FINE GRADING _____ DOLLARS AND _____ CENTS		
304.301	2160	CY	CRUSHED GRAVEL _____ DOLLARS AND _____ CENTS		

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<i>BID ITEM NO.</i>	<i>EST. QTY.</i>	<i>UNITS</i>	<i>BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)</i>	<i>UNIT PRICE IN FIGURES (DOLLARS AND CENTS)</i>	<i>BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)</i>
306.112	10,500	SY	RECLAIMED STABILIZED BASE 12 INCHES DEEP _____ DOLLARS AND _____ CENTS		
403.11	2800	TONS	HOT TOP BITUMINOUS PAVEMENT (MACHINE METHOD) _____ DOLLARS AND _____ CENTS		
403.12	200	TONS	HOT TOP BITUMINOUS PAVEMENT (HAND METHOD) _____ DOLLARS AND _____ CENTS		
403.99	45	TONS	3 INCH TEMPORARY BITUMINOUS PAVEMENT _____ DOLLARS AND _____ CENTS		
417	305	SY	COLD PLANING/ MILLING _____ DOLLARS AND _____ CENTS		
604. 51	56	EA	RECONSTRUCTING / ADJUSTING CATCH BASINS _____ DOLLARS AND _____ CENTS		
604. 52	73	EA	RECONSTRUCTING / ADJUSTING MANHOLES _____ DOLLARS AND _____ CENTS		
608. 26	18	SYS	6 INCH CONCRETE SIDEWALK _____ DOLLARS AND _____ CENTS		
608.54	4.3	SY	DETECTABLE WARNING DEVICES CAST IRON _____ DOLLARS AND _____ CENTS		
609.01	250	LF	STRAIGHT GRANITE CURBING _____ DOLLARS AND _____ CENTS		
611.90001	40	EA	ADJUSTING WATER VALVE BOXES _____ DOLLARS AND _____ CENTS		
615.034	2	U	RELOCATE TRAFFIC SIGN TYPE C _____ DOLLARS AND _____ CENTS		

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BID ITEM NO.	EST. QTY.	UNITS	BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)	UNIT PRICE IN FIGURES (DOLLARS AND CENTS)	BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)
618.7	4320	HRS	FLAGGERS _____ DOLLARS AND _____ CENTS		
619.1	1	LS	MAINTENANCE OF TRAFFIC _____ DOLLARS AND _____ CENTS		
632.0104	50	LF	RETOREFLECTIVE PAINT MARKINGS 4 INCH LINE _____ DOLLARS AND _____ CENTS		
632.0112	39	LF	RETOREFLECTIVE PAINT MARKINGS 12 INCH LINE _____ DOLLARS AND _____ CENTS		
632.0118	63	LF	RETOREFLECTIVE PAINT MARKINGS 18 INCH LINE _____ DOLLARS AND _____ CENTS		
632.32	34	SF	RETROREFLECT THERMOPLAS PAV. MARKING SYMBO. _____ DOLLARS AND _____ CENTS		
641	100	CY	3/8" SCREENED LOAM _____ DOLLARS AND _____ CENTS		
645	1	LS	EROSION CONTROL _____ DOLLARS AND _____ CENTS		
646.31	420	SY	TURF ESTABLISHMENT WITH MULCH & TACKOFIER _____ DOLLARS AND _____ CENTS		
628.2	1670	LF	SAWCUT BITUMINOUS PAVEMENTS _____ DOLLARS AND _____ CENTS		
660.81	3	EA	RELOCATE MAILBOX _____ DOLLARS AND _____ CENTS		
692	1	LS	MOBILIZATION _____ DOLLARS AND _____ CENTS		

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<i>BID ITEM NO.</i>	<i>EST. QTY.</i>	<i>UNITS</i>	<i>BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)</i>	<i>UNIT PRICE IN FIGURES (DOLLARS AND CENTS)</i>	<i>BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)</i>
702	675	CY	# 67 (¾) INCH STONE _____ DOLLARS AND _____ CENTS		

BID SUMMARY

TOTAL BASE BID PRICE..... \$ _____

TOTAL BASE BID PRICE (WRITTEN)

DOLLARS)

THE CITY OF CONCORD RESERVES THE RIGHT TO INCREASE, DECREASE OR DELETE ANY LINE ITEM FOR THIS PROJECT.

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BID ALTERNATE # 2 - VALVE

<i>BID ITEM NO.</i>	<i>EST. QTY.</i>	<i>UNITS</i>	<i>BID ITEM DESCRIPTION AND UNIT PRICE (IN WORDS)</i>	<i>UNIT PRICE IN FIGURES (DOLLARS AND CENTS)</i>	<i>BID ITEM TOTAL IN FIGURES (DOLLARS AND CENTS)</i>
1	1	EA	8" TEAM INSERT VALVE / VALVE BOX _____ DOLLARS AND _____ CENTS		

BID SUMMARY

TOTAL BID PRICE ALTERNATE #1 STORM DRAIN IMPROVMENTS.....
\$ _____

TOTAL BID PRICE ALTERNATE #1 – STORM DRAIN IMPROVMENTS (WRITTEN)

(DOLLARS)

TOTAL BID PRICE ALTERNATE #2 - VALVE.....
\$ _____

TOTAL BID PRICE ALTERNATE #2 – VALVE (WRITTEN)

(DOLLARS)

THE CITY OF CONCORD RESERVES THE RIGHT TO INCREASE, DECREASE OR DELETE ANY LINE ITEM FOR THIS PROJECT.

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BID SUMMARY

BASE BID \$ _____

TOTAL BID PRICE ALTERNATE #1 \$ _____

TOTAL BID PRICE ALTERNATE #2 \$ _____

TOTAL OF BASE BID, BID ALTERNATE # 1 & 2 \$ _____

**It is the intent of the City of Concord to award the contract based on the responsible “BASE BID”.
The City reserves the right to add to the awarded contract Bid Alternate #1and/or Bid Alternate #2
depending on Bid prices and the availability of funds.**

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MEASUREMENT AND PAYMENT

8" TEAM INSERT VALVE / VALVE BOX

ITEM # 1

A. Measurement:

Measurement shall be for the actual number of Team Insert Valves furnished and installed (all complete with boxes) as measured and accepted by the Engineering Inspector. Thrust rods and / or glands along with valve box aligner will be considered subsidiary to this valve item.

Team Insert Valve shall open right.

B. Payment:

Payment shall be at the unit price bid and shall be full compensation for each Team Insert Valve and box actually furnished and installed. Payment shall include, but not be limited to furnishing removing pavement, curbing, excavation (except for ledge, and boulder removal), supporting telephone poles, sheeting and bracing, dewatering, bedding material (unless select material, is ordered by the inspector), setting, jointing, box aligner, blanket material (clean fill sand), compacting resetting disturbed curbing fences, restoration of trench to final grade, adjusting boxes, and all work required for and incidental to the satisfactory completion of this item, **Note: All bonnet bolts and nuts must be stainless steel.**

8"QUIK VALVE INSERTION VALVE/ BOX

ITEM # 10

A. Measurement:

Measurement shall be for the actual number of Insertion valves furnished and installed (all complete with boxes) as measured and accepted by the Engineering Inspector. Thrust rods and / or glands along with valve box aligner will be considered subsidiary to this valve item.

Quik Valve Insertion Valves shall open right.

B. Payment:

Payment shall be at the unit price bid and shall be full compensation for each Insertion Valve and box actually furnished and installed. Payment shall include, but not be limited to furnishing and installing Insertion valve, valve box, setting, jointing, adjusting box, and all work required for or incidental to the satisfactory completion of this item.

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MEASUREMENT AND PAYMENT

**REPLACEMENT OF 4" or 6" SEWER SERVICES
IN CONFLICT WITH NEW WATER MAIN WITH
4" & 6" DUCTILE IRON PIPE CLASS 52**

ITEM# 22

Measurement:

Measurement shall be for the actual number of linear feet of 4 inch or 6 inch gravity sewer service pipes to be replaced with new 4" or 6" ductile iron **CLASS 52** pipes furnished and installed as measured and approved by the Engineer. Measurement shall be made to the nearest tenth of a linear foot.

Payment:

Payment shall be at the unit price bid and shall be full compensation for the actual number of linear feet of 4 inch or 6 inch ductile iron gravity sewer service pipe furnished and installed as measured and approved by the ENGINEER. Payment shall include, but not be limited to, saw-cutting, removing, excavation (except ledge and boulder excavation), sheeting and bracing, support electrical pole, removing and disposing of any asbestos pipe encounter, dewatering, bedding material, **mechanical couplings (romax cplg.)**, and all other and required appurtenances as measured and accepted by the Construction Inspector. blanket material (**clean fill sand**), sewer tape, backfilling (unless select material is ordered by the ENGINEER), compacting, restoring the trench surface to sub-grade in the paved areas and final grade in unpaved areas, establishment of growth and/or gravel surfaces, and all other work required for or incidental to the completion of this item

ADJUSTING WATER GATES VALVE BOXES

IEM # 611.90001

B28-16
Water Main Replacement Project

**RELAY EXISTING 4 INCH SEWER SERVICES
TO PROPERTY LINE**

ITEM# 23

Measurement:

Measurement shall be for the actual number of relayed 4 inch sewer services, furnished and installed as measured and approved by the Engineer. Measurement will be per each 4 inch sewer service relayed to property line.

Payment:

Payment shall be at the unit price bid and shall be full compensation for each sewer service furnish and installed as measured and approved by the ENGINEER. Payment shall include, but not be limited to, saw-cutting, removing, excavation (except ledge and boulder excavation), sheeting and bracing, support electrical pole, removing and disposing of any asbestos pipe encounter, dewatering, bedding material, saddles, pvc schedule 35 pipes, cleanout, cast iron frame and cover , mechanical couplings romax cplg.), and all other and required appurtenances as measured and accepted by the Construction Inspector. blanket material (**clean fill sand**), sewer tape, backfilling (unless select material is ordered by the ENGINEER), compacting, restoring the trench surface to sub-grade in the paved areas and final grade in unpaved areas, establishment of growth and/or gravel surfaces, and all other work required for or incidental to the completion of this item

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**RELAY EXISTING 6 INCH SEWER SERVICES
TO PROPERTY LINE**

ITEM# 24

Measurement:

Measurement shall be for the actual number of relayed 6 inch sewer services, furnished and installed as measured and approved by the Engineer. Measurement will be per each 6 inch sewer service relayed to property line.

Payment:

Payment shall be at the unit price bid and shall be full compensation for each sewer service furnish and installed as measured and approved by the ENGINEER. Payment shall include, but not be limited to, saw-cutting, removing, excavation (except ledge and boulder excavation), sheeting and bracing, support electrical pole, removing and disposing of any asbestos pipe encounter, dewatering, bedding material, saddles, pvc schedule 35 pipes, cleanout, cast iron frame and cover, mechanical couplings romax cplg.), and all other and required appurtenances as measured and accepted by the Construction Inspector. blanket material (**clean fill sand**), sewer tape, backfilling (unless select material is ordered by the ENGINEER), compacting, restoring the trench surface to sub-grade in the paved areas and final grade in unpaved areas, establishment of growth and/or gravel surfaces, and all other work required for or incidental to the completion of this item

B28-16
Water Main Replacement Project

7. SPECIAL PROVISION PG# 72 #41:
ADD VEHICLE FOR PROJECT

Vehicle provided by Contractor. The Contractor must supply a vehicle for the City Engineer's staff use for the duration of this Project. To be used by the City Engineer's staff during Project working hours. Contractor must provide proof of registration, inspection, and insurance. The City will be responsible for fuel charges. The supplied vehicle shall be as follows:

- Must be less than 3 years of model year and have less than 100,000 vehicle miles.
- Full size pick-up truck with "Extra Cab" or "Super Cab" body design with 8' bed
- Color: Manufacturer's White, free from Contractor's name or logo
- Interior Color: Gray or Tan
- 2 Wheel Drive
- Eight Cylinder or Six Cylinder Gasoline Engine
- Automatic Transmission
- Power Steering with Tilt Steering Wheel
- Power Brakes with "Anti-Lock" (or ABS) feature
- Cloths Seats
- Air Conditioning
- Tinted Glass
- Cruise Control
- AM-FM Radio (stereo)
- Intermittent Windshield Wipers
- Power Windows
- Power Door Locks
- Right Hand & Left Hand Side View Mirrors
- Full size spare tire & wheel
- Rear Step Bumper
- Trailer Towing Package
- Owner's Manual
- No Deletion of and Standard Equipment
- All of the above to be Factory Installed (not dealer installed)
- Factory, Dealer, or Locally Installed:
 - o Full, Rigid Bed Cover, Watertight
 - o Amber (L.E.D.) Strobe Light(s)
 - o City Seal on magnetic sheet suitable for placing a logo on a vehicle placed on driver's side and passenger's side door